

§ 174.360

- (ii) In the absence of a contract, the construction work of which is begun on or after August 1, 1992; or
- (iii) Which is completed on or after February 1, 1997.

§ 174.360 Calculations.

Each ship to which this subpart applies, must meet the minimum standard of subdivision and damage stability required for that ship by the International Convention for the Safety of Life at Sea, 1974, as amended, chapter

46 CFR Ch. I (10-1-07 Edition)

II-1, part B-1. Compliance with the applicable requirements must be demonstrated by calculations and reflected in information on loading restrictions, such as a maximum height of the center of gravity (KG) or minimum metacentric height (GM) curve that is part of the stability information required by § 170.110 of this chapter and Regulation 25-8 of The International Convention for the Safety of Life at Sea, 1974, as amended, chapter II-1, part B-1.

INDEX

SUBCHAPTER S—SUBDIVISION AND STABILITY

EDITORIAL NOTE: This listing is provided for informational purposes only. It is compiled and kept current by the U.S. Coast Guard, Department of Homeland Security. This index is updated as of October 1, 2007.

Part, Subpart, or Section

A

Addresses:

Material incorporated by reference	170.015
Merchant marine technical offices	170.100
Aft peak bulkhead, passenger vessels	171.090
Alterations	170.001(b), 170.005
Auxiliary sailing vessels:	
Defined	170.055(a)
Large passenger vessels	171.045
Small passenger vessels	170.055, 171.010
Weather criterion for	170.160

B

Ballast, fixed. (See Fixed ballast)

Barges:

Deck cargo	Part 174, Subpart B
Definitions.....	170.055 (b) and (q)
Large passenger	171.045
Oceanographic research.....	173.070
Tank. (See Tank barges)	
Weather criterion for	170.160
Bulk cargo vessels, special requirements for	Part 172
Buoyancy:	
Air tanks	171.070(d), 171.095(c)
Foam flotation material.....	170.245
Internal	171.070(d), 171.095(c)
Standards of flooding.....	171.017

C

Calculations:

Samples of, in stability booklet	170.110(d)
Stability text results.....	170.175(a)
Submittal of	170.090
Catamarans.....	171.057
Center of gravity:	
Determination of	Part 170, Subpart F
Estimated position on tank vessels	170.200
In stability booklet	170.110(d)
Subchapter O barges.....	172.090(b)
Tanks.....	170.075(a)(5)
Collision bulkhead:	

46 CFR Ch. I (10-1-07 Edition)

Oceanographic research vessels	173.075, 173.085
Passenger vessels.....	171.060, 171.065, 171.070, 171.085
Consumable liquids: Effect on stability calculations	170.285, 170.290
Cranes:	
Data required.....	170.095
Requirements for vessels with	Part 173, Subpart B
Cross curves, required.....	170.090(b)(3)
Cross-flooding:	
Liquefied gas carriers, system standards	172.195(g)
Passenger vessels, system standards	171.080(e)
Subchapter O tankships, system standards	172.150(g)

D

Damage stability calculations:	
Liquefied gas carriers, local damage	172.205
MODU's, standards for	174.065
Nautical school ships, standards for	173.055, 173.080
Oceanographic research vessels, standards for	173.080
Passenger vessels:	
Cockpits	171.145(e)(3)
Types I and II	171.080
Type III	171.082
Well decks	171.150(b)(2)
Subchapter D tank barges carrying cargoes other than oil	172.050
Subchapter O barges, standards for	172.103
Subchapter O tankships, standards for	172.133
Dangerous cargoes.....	Part 172, Subparts E and F
Dead covers:	
Oceanographic research vessels, required	173.085(k)
Passenger vessels, required	171.117, 171.119(a)(2), 171.122(g)
Deadweight surveys	170.175(c)
Deck cargo barges. (See Barges)	
Definitions:	
Concerning a vessel.....	170.055
General terms	170.050
Pertaining to lifting	173.010
Pertaining to liquefied gas carriers.....	172.160
Pertaining to MODU's	174.035
Pertaining to passenger vessels	171.010
Pertaining to Subchapter O tankships	172.127
Discontinuous bulkhead deck, passenger vessels.....	171.015(c)
Discontinuous weather deck.....	170.170(b)
Double bottoms, passenger vessels:	
Manholes in	171.108
Permeability of.....	171.066(b)(4)
Required	171.105
Watertight floors in.....	171.109
Wells in	171.106
Downflooding:	
Angle	170.055(g)
Deck cargo barges.....	174.015
Defined (except MODU's)	170.055(e)
Lifting vessels	173.020(b)
Liquefied gas carriers	172.195
Mobile offshore drilling units (MODU's):	
Considered.....	174.045
Defined.....	174.035(b)

Subchapter S Index

Oil tankers.....	170.055(p)
Sailing passenger vessels.....	171.055
Subchapter O barges.....	172.090
Subchapter O tankships.....	172.150
Tugboats and towboats.....	174.145
Vessels of unusual proportion and form	170.173
Vessels which tow.....	173.095
Draft marks	170.075(a)(6), 170.180(e)
Drainage of weather decks.....	Part 171, Subpart H
Deck cargo barges	Part 174, Subpart B

E

Equalization. (See Cross-flooding)	
Equivalent plane bulkhead, passenger vessels:	
Defined.....	171.010(c)
Required:	
Type I subdivision	171.067(f)
Type II subdivision.....	171.073(c)
Equivalents.....	170.010
Estimated lightweight vertical center of gravity.....	170.200
Existing vessels	170.001(b)

F

Ferry:	
Collision bulkheads	171.060(d)
Defined	171.010(d)
Fixed ballast	170.110(d)(14), 170.235
Floodable length:	
Curves required.....	170.090(b)(4)
Defined	171.010(f)
Passenger vessels:	
Standards, Type I	171.065
Standards, Type II	171.070
Standards, Type III	171.075
Floors, watertight—in double bottoms.....	171.109
Foam flotation	170.245, 171.070(d), 171.095(c)
Foreign vessels	170.001(a)(2)
Freeboard: Allowable heeling limits, general.....	170.170(a)
Freeing ports:	
Minimum Area.....	171.150
Required	171.135
Free surface:	
Instructions concerning:	
Counterballasting	170.125(b)(1)
Stability booklet	170.110(d)(6)
Subchapter O tank barges, assumption	172.087(b)
Treatment of, general	Part 170, Subpart I

G

Grain in bulk.....	Part 172, Subpart B
“Grandfathering”	170.001(b)

H

Hazardous liquids.....	Part 172, Subparts E, F
Hopper barges:	
Subchapter D cargoes other than oil	172.050

46 CFR Ch. I (10-1-07 Edition)

Subchapter O cargoes	172.100, 172.110
Hydrostatic curves (curves of form), required	170.075(a)(3)

I

Inclining experiments. (See Stability test)

Incorporation by reference:

General	170.015
IMO Resolution A.265(VIII)	170.135, 171.075, 171.082
MIL-P-21929B	170.245(b)(9)

Intact stability:

Deck cargo barges.....	174.015, 174.020
Large passenger vessels:	
Catamarans	171.057
Passenger heel	171.050
Sailing	171.055
Lifting vessels.....	173.020, 173.025
Liquefied gas carriers	172.165
Mobile offshore drilling units (MODU's).....	174.045
Passenger vessels:	
Cockpits	171.145(e)(1)
Well decks	171.150(b)(2)
Subchapter O barges	172.090, 172.095
Tugboats and Towboats	174.145
Vessels of unusual proportion and form	170.170(d), 170.173
Weather Criterion.....	170.160, 170.170

International voyage:

Passenger vessels:	
Aft peak bulkhead required	171.090(a)
Defined.....	171.010(h)
Double bottoms required for	171.105(a)
Shaft tunnels	171.100(b)
Special considerations	171.068
Standards	171.045
Subdivision requirements	170.265(d)(1)
Watertight door requirements	170.265(d)(1)

L

Large Passenger vessels

Part 171, Subpart C

Lifting:

Data submittal requirements	170.095
Operating information requirements	170.125
Standards	Part 173, Subpart B

Lightweight:

Defined	170.055(j)
Information required, stability booklet	170.110(d)(1)
Determination of	Part 170, Subpart F
Lines drawing required.....	170.075(a)(2), 170.180(a)
Liquefied flammable gas, barges	Part 172, Subpart C
Liquefied gas carriers	Part 172, Subpart G
LNG Carriers. (See Liquefied gas carriers)	

Load line:

Certificate stability information on.....	170.110(e), 170.120(b)
Length, defined	170.055(i)(5)

Locks required:

Cargo space watertight doors	170.275(b)
Port lights below the bulkhead deck.....	171.116(f)(4)

Subchapter S Index

M

Machinery space bulkhead, passenger vessels	171.095
Main transverse watertight bulkhead.....	170.055(k)
Manholes, passenger vessels:	
Double bottoms.....	171.108
Prohibited locations.....	171.111(h)
Margin line:	
Passenger vessels:	
Air tankage or internal buoyancy	171.070(d)(2)
Dead covers required on port lights, below.....	171.117(a)
Location of.....	171.015
Location of openings	171.111(f), (g)
Openings in trunks.....	171.113(c)(2)
Stepped bulkheads	171.067(b)(3)
Submergence of.....	171.017, 171.080(d)(3), 171.100(b)
Volume below	Tables 171.065(a), 171.066, 171.068
Volume of passenger spaces above	171.065(b)
Watertight integrity above	Part 171, Subpart G
Test head:	
Form flotation material	170.245(b)(3)
Watertight doors.....	170.270(b)
Military specifications, MIL-P-21929B.....	170.015(b), 170.245(b)
Mobile offshore drilling units (MODU's):	
Stability information required.....	170.110(a)
Standards for	174.005(b), Part 174, Subpart C

N

Nautical school ships, standards	171.001(b), 173.001(b), Part 173, Subpart C
--	---

O

Oceanographic vessel, standards	171.001(b), 173.001(c), Part 173, Subpart D
Oil in bulk, standards for vessels carrying	172.005(c), Part 172, Subpart D
Openings:	
Closed by weathertight covers:	
Liquefied gas carriers.....	172.195
Mobile offshore drilling units	174.045(c)
Subchapter O tankships	172.150
Downflooding through:	
General.....	170.055(e)
Mobile offshore drilling units	174.035(b), 174.065(a)
Subchapter O barges	172.090(d)
Sailing passenger vessels	171.055(e)
Mobile offshore drilling units:	
Closures for	174.100
Watertight, closed automatically.....	174.015(b)
Watertight, closed rapidly	174.045
Passenger vessels:	
Cockpit openings.....	171.145(a)(2)
Collision bulkhead	171.085
Special consideration, exposed weather decks	171.122(f)
Vessel sides.....	Part 171, Subpart F
Watertight bulkheads.....	Part 171, Subpart E
Watertight, closed automatically:	
Mobile offshore drilling units	174.015(b)
Towing vessels	173.095(e)

46 CFR Ch. I (10-1-07 Edition)

P

Passenger vessels, standards	Part 171
Penetrations (See Openings)	
Permeability	
Calculation of, Type I subdivision	171.066
Damage stability:	
Liquefied gas carriers.....	172.185
Mobile offshore drilling units	174.090
Cargo tankers	172.065(f)
Passenger vessels	171.080(c)
Subchapter O tankships	172.140
Defined	170.055(m)
Uniform average permeability:	
Type I subdivision	Table 171.068
Type II subdivision.....	171.072
Plans:	
Approval:	
General	Part 170, Subpart C, 170.180
Required.....	170.075
Specific	170.093
Submittal of	170.100, 170.180
Port lights	171.116

R

Repairs:	
General	170.001(b), 170.005
In way of fixed ballast	170.235(b)
Roll stabilization tanks.....	170.295
Rudders, towline pull criterion.....	173.095

S

Sailing vessels:	
Defined	170.055(a), (n)
Intact stability standards:	
Catamarans	171.057
Large passenger vessels.....	171.055
Weather criterion	170.160
School ships (See Nautical school ships)	
Shaft power, towline pull criterion	173.095
Shaft tunnels:	
On passenger vessels	171.100, 171.106(c)
Watertight doors in	170.260(d)
Short international voyages, vessels on:	
Class 3 doors	170.265(d)(1)
Defined	171.010(n)
Double bottoms not required.....	171.105(h)(2)
Special considerations	171.068
Side ports, passenger vessels	171.118
Sister vessel, stability test dispensed with	170.175(c)
Small passenger vessels, standards	Part 171
Stability booklets:	
Contents of	170.110
Lifting vessels, additional information	170.125
Submission and approval required.....	170.080
Vessels with Type III subdivision, additional information.....	170.135
Stability letters:	

Subchapter S Index

In lieu of stability booklet	170.110(e)
Required	170.120
Stability test:	
General	170.175
Information required before test	170.085
Plans and information required at test	170.180
Preparations for test	170.185
Test procedure, modification of.....	170.190
Stern tubes, passenger vessels.....	171.100
Subdivision:	
Oceanographic vessels	173.075, 173.085
Passenger vessels:	
Additional requirements	Part 171, Subpart D
Calculations:	
Type I	171.065, 171.066, 171.067, 171.068
Type II.....	171.070, 171.072, 171.073
Type III	171.075
Requirements, large passenger vessels	171.060
Trunks, effect of	171.113(b)(3)
Subdivision load line (draft), passenger vessels:	
Cockpits	171.145(e), (f)
Dead cover locations	171.117(b)
Deepest, defined.....	171.010(b)
Openings in hull, small passenger vessels	171.119(a)
Port light locations	171.116(b)(2)
Transverse damage extent, relationship to.....	171.065(h)(2), Table 171.080(a)
Ventilators and side port locations	171.118(c)
Superstructures:	
Buoyancy of:	
Liquefied gas carriers	172.195(e)
Oil tankers.....	172.065(h)
Subchapter O tankships	172.150
Integrity of, mobile offshore drilling units	174.100(b)
Points of downflooding in:	
General.....	170.055(e)
Mobile offshore drilling units	174.035(b)(1)
Port lights in, oceanographic vessels.....	173.085(k)

T

Tank barge:	
Assumed center of gravity for	170.200(b)(2)
Carrying oil in bulk	Part 172, Subpart D
Carrying Subchapter D cargoes other than oil	Part 172, Subpart C
Carrying Subchapter O cargoes.....	Part 172, Subpart E
Defined	170.055(q)
Tank vessel:	
Assumed center of gravity.....	170.200
Defined	170.055(p)
Standards for	Part 172, Subparts C, D, E, F, G
Tests:	
Foam flotation material.....	170.245
Stability.....	170.085, Part 170, Subpart F
Watertight doors.....	170.270
Towboats. (See Towing)	
Towing, standards for...173.001(d), Part 173, Subpart E, 174.005(d), Part 174, Subpart	E
Towline pull criterion.....	173.095

46 CFR Ch. I (10-1-07 Edition)

Tugboats. (See Towing)

U

Unusual proportion and form, vessels of..... 170.173

V

Ventilators, automatic—passenger vessels..... 171.118

W

Watertight bulkheads:

Doors, standards for..... 171.122, 171.124, Part 170, Subpart H

Liquefied gas carriers 172.175, 172.195

Mobile offshore drilling units 174.080, 174.085

Oceanographic vessels, ducts through..... 173.085(o)

Oil tankers..... 172.065

Passenger vessels:

Above weatherdeck 171.122

Large passenger vessels, requirements 171.065, 171.067, 171.068, 171.070, 171.073

Machinery space..... 171.095

Penetrations of..... Part 171, Subpart E

Watertight floors 171.109

Subchapter D barges not carrying oil..... 172.050

Subchapter O barges 172.104

Subchapter O tankships..... 172.133(d), 172.150

Watertight doors. (See Watertight bulkheads)

Weather criterion..... Part 170, Subpart E

Wind heeling moment: MODU's 174.035(b)(2), 174.045, 174.055, 174.065(a)(2),
174.100(d)(2)